



Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
[www.msdlouky.org](http://www.msdlouky.org)

June 20, 2012

Ms. Donna Seadler  
Remedial Project Manager  
Kentucky/Tennessee Section U.S.  
U.S. Environmental Protection Agency Region IV  
61 Forsyth Street  
Atlanta, GA 30303

**Re: Result of Air Quality Monitoring - FY 12, Fourth Quarter (FY12-4Q),  
Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on  
Consent, USEPA Docket No-91-32-C**

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.2, Air Quality Monitoring, attached for your information and files is one photocopy each of the following items, prepared by URS Corporation, 1600 Perimeter Park Drive, Suite 100, Morrisville, North Carolina 27560 and received by MSD on June 19, 2012.

1. URS Corporation letters dated June 11, 2012, 2 pages.
2. Figure 1, Lees' Lane Landfill, Sampling Locations, 1 page.
3. Table 1, TO-15 Data Summary for Ambient Air Samples at the Lees' Lane Landfill, Sampling date: April 24, 2012, 1 page.
4. Table 2, On-Site Meteorological Data, Sampling date, April 24, 2012, 1 page.
5. Table 3, TO-15 Data Summary for Gas Monitoring Well Samples at the Lees' Lane Landfill, Sampling date: April 24, 2012, 1 page.



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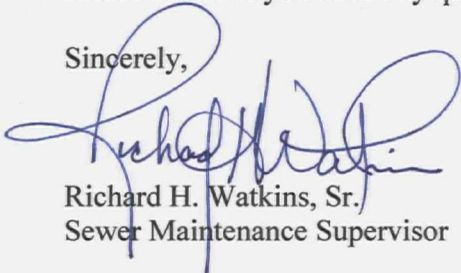


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Ms. Donna Seadler  
December 12, 2011  
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Please advise if you have any questions concerning the attached information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Richard H. Watkins, Sr.", is written over the word "Sincerely," and the printed name below it.

Richard H. Watkins, Sr.  
Sewer Maintenance Supervisor

RHW/rw  
Lees-12-4Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet  
Mr. Daniel Phelps, Division of Waste Management  
Tony Marconi, I&FP Preventive Maintenance & Support Manager  
Lee Lane File



41917162.00200

June 11, 2012

Mr. Rick Watkins  
Louisville Metropolitan Sewer District  
3050 Commerce Center Place  
Louisville, KY 40211

Dear Rick:

Enclosed is the summary analytical report for the ambient air and gas monitoring well samples collected at the Lee's Lane Landfill site on April 24, 2012 (Sampling Event 51). Seven ambient samples, along with (G1, G2, G3, G4, G5R, G5L, GMW-1, GMW-2, GMW-3) gas well samples and a field blank were taken.

A map of the site, labeled with the sample collection locations for your reference, is shown in Figure 1. Table 1 is a tabular summary of the ambient samples with the primary analytes required for submission to EPA. Methylene chloride and toluene were detected in small quantities in select ambient samples. Table 3 is a tabular summary of the gas well sample with the primary program analytes. Vinyl chloride was detected in small quantities in wells G1, G3 and G5R, and methane concentrations were consistent with historical data. The detection limits of the primary program analytes (benzene, methylene chloride, toluene, vinyl chloride, and xylenes) were less than 2 ppbv which is slightly greater than desired in the program design. The higher reported detection limits are a result of a laboratory change in the calculation methodology for reporting (ND) values not previously reported.

The sampling locations were chosen based on a combination of prevailing on-site meteorology and accessible sites in the adjacent residential neighborhood per the standard sampling protocol. The meteorological conditions were moderate throughout the sampling day; warm (68 °F), with moderate, variable winds. The information displayed in Table 2 was obtained from the Louisville International Airport (Standiford Field) National Weather Service Station. The ambient air samples were collected in Summa canisters positioned 3-5 feet above ground level, integrated over an approximate 7-hour collection period.

The methane analysis was performed by GC/FID using a separate analytical system from the TO-15 analysis employed at STL in Austin. The TO-15 analytical methodology using Gas Chromatography/Mass Spectrometry (GC/MS) was employed. Samples were handled with standard laboratory chain-of-custody procedures. Sample canisters and flow controllers were cleaned and blanked using method TO-12 for total non-methane hydrocarbons prior to field deployment. All of the samples were successfully collected and analyzed for methane and the TO-15 target analytes. Quality control parameters of precision (repeatability) and spiking of surrogate compounds meet internal URS and project-required specifications for all other analyses.

URS Corporation  
1600 Perimeter Park Drive, Suite 400  
Morrisville, NC 27560  
Tel: 919.461.1100  
Fax: 919.461.1415



Mr. Rick Watkins  
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The reliability of this data set can be characterized as good, based on the repeatability (analytical precision), surrogate spike recoveries, blank levels and the relatively few number of unresolved interfering peaks in the sample chromatograms. The April, 2012 field blank canister reported no positive hits other than the surrogate recoveries. The reported results have not been blank corrected in attached tables per our standard project procedure.

Prior to the field sample collection, Wells G-1, GMW-1, GMW-2 and GMW-3 were sampled with a GEM-200 analyzer to test for the presence of methane in the well. Methane was not detected in any of the wells or the vicinity of the well above background by the instrumentation.

URS appreciates the opportunity to assist your staff with this project. Please advise me at (919) 461-1242 if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Robert F. Jongleux". The signature is stylized with a large, looping "J" and "L".

Robert F. Jongleux  
Project Manager

Enclosure

cc: Chris Davis, URS/LOU  
Project File/Task 51

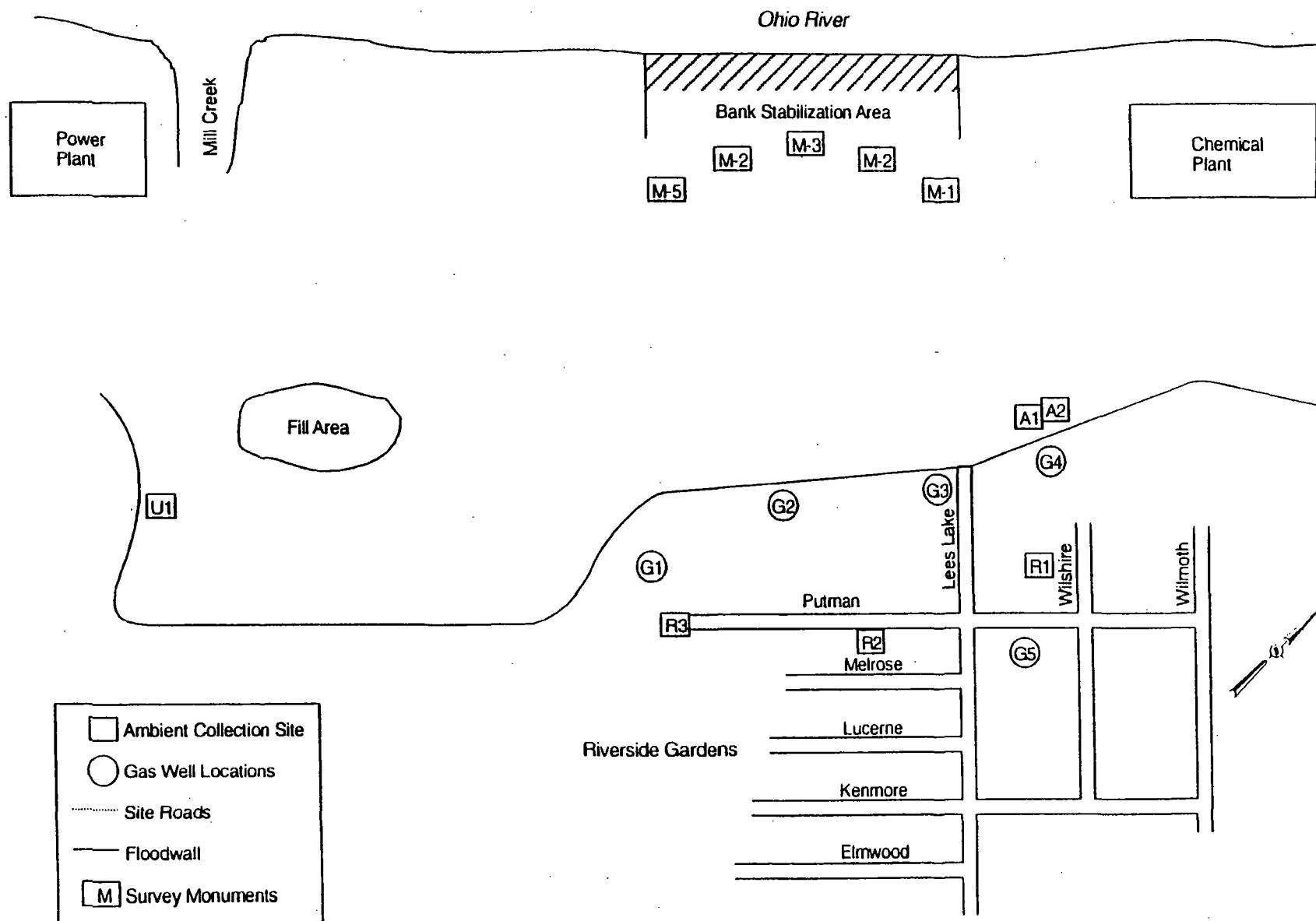


Figure 1. Lees Lane Landfill Sampling Locations



**TABLE 1**  
**TO-15 DATA SUMMARY FOR AMBIENT AIR SAMPLES**  
**AT THE LEE'S LANE LANDFILL**  
**SAMPLING DATE: 24 APRIL 2012**

	Ambient Air Samples						
Sample ID	A1	A2	U1	U2	R1	R2	R3
Canister ID	RA2244	5438	RA2221	RA2116	RA2030	RA2212	RA2123
Dilution Factor	4.2952	5.9368	6.0298	4.8832	4.2678	5.8064	6.168
Location	ONSITE	ONSITE DUP.	LG&E	LEVY	4423 WILSHIRE	PUTNAM LANE	PUTNAM END
Veriflow ID	A181861	A168513	A218997	FC023	A134120	A218796	A181856
Compound (ppbV)							
Benzene	ND	ND	ND	ND	0.105	ND	ND
Methylene chloride	0.0756	0.0522	0.0157	0.0332	0.273	0.0325	0.082
Toluene	0.0348	0.0772	0.0211	0.0566	0.136	0.0813	0.102
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	ND	ND	ND	ND	ND	ND
Methane (ppmV)	4.11	4.56	4.53	4.07	3.82	4.81	4.26

ND = Non Detect < MDL and < Limit of Quantitation



**TABLE 2**  
**LOCAL METEOROLOGICAL DATA**  
**AMBIENT AIR SAMPLES**  
**SAMPLING DATE: 24 APRIL 2012**

<b>Time</b>	<b>Barometric Pressure (in Hg)</b>	<b>Temperature (°F)</b>	<b>Dewpoint (°F)</b>	<b>Wind Direction (from)</b>	<b>Wind Speed (mph)</b>	<b>Observation</b>
7:56 AM	29.80 in	46.9 °F	34.0 °F	West	11.5 mph	Mostly Cloudy
8:56 AM	29.80 in	50.0 °F	35.1 °F	West	12.7 mph	Mostly Cloudy
9:56 AM	29.82 in	54.0 °F	37.0 °F	WNW	9.2 mph	Mostly Cloudy
10:56 AM	29.83 in	59.0 °F	37.0 °F	NW	9.2 mph	Scattered Clouds
11:56 AM	29.83 in	61.0 °F	37.0 °F	WNW	13.8 mph	Mostly Cloudy
12:56 PM	29.83 in	62.1 °F	36.0 °F	WNW	17.3 mph	Mostly Cloudy
1:56 PM	29.81 in	63.0 °F	34.0 °F	NW	13.8 mph	Mostly Cloudy
2:56 PM	29.80 in	64.0 °F	35.1 °F	NW	16.1 mph	Mostly Cloudy
3:56 PM	29.79 in	62.1 °F	37.9 °F	West	16.1 mph	Overcast
4:56 PM	29.80 in	59.0 °F	39.9 °F	WNW	11.5 mph	Light Rain
5:56 PM	29.80 in	59.0 °F	44.1 °F	West	6.9 mph	Overcast

Source: National Weather Service, Louisville, Ky.